

Exhibit 2

aatatTTTaaa	atgcagattc	tagactcaat	caggcgggag	cccagaaatt	tgcattgtta	180
acacctgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgttttata	aacacagaag	240
gttggaacc	atggataact	aagtgaagtc	atTTTgtcac	tcagatttga	atTTTctaca	300
ggctatagag	tgcagtttgg	ctaaagcaaa	acctaggtac	agtcaggact	acacaattcc	360
agttcgtgt	gggttgggaa	gggatgggtg	ggccagtgt	ggcaagcctt	gatctttgcc	420
cgggcttgtc	cttctgggga	gaattacctg	cttctgctgg	actgaggggtg	ccctcatctc	480
tggctagagc	ccgtgctgcc	atggaagact	ctttccggtg	cccactaatc	cttgatgttc	540
accttgtccc	ctgccccag					560

<210> 5
 <211> 11539
 <212> DNA
 <213> Mus musculus

 <220>
 <221> modified_base
 <222> (1847)
 <223> N = A, C, G OR T/U

<400> 5						
gagctctaac	tgagctggga	aagttgatca	tttgtttatt	ccttttaggg	tattgggggg	60
gcacggatgt	atgcatgctg	gtatgtatgc	atgctgggga	tgtagggcct	catgtgtgct	120
aaatacatgt	gcctattctg	taatgttttc	ttgtttgttt	ttaactcaaa	ttaattagag	180
gcagtttctc	tgttaaaaaa	aaaaaggtgg	aagacactgc	catctcattt	gtgttgggac	240
ttgagatata	tatatatata	tatatatata	tatatatata	tatataattt	atTTTttat	300
ttatTTTgtgt	atgtgtgtat	aagaaagcgg	gggacactca	tgtgccatgg	tgtgtatggg	360
gacacacgtg	tcctgtgggg	gaacattgtg	tcagggggaac	aaacatgtgc	tgaggggtgg	420
gggatataata	tgtgccactg	tggtgatttg	gttgggggag	acatgtatgt	gctatgatac	480
ctgtgtgtag	gacagaggac	acactcacac	aggagccttc	ttacctgctg	agctgtctca	540
agcagtccaa	gmccctccatg	gctgtagcca	ctcttccctc	ttgctacagt	cccacatcca	600
scacaacacat	aaaggctctg	gcaggaaata	aattaaatyt	gctttgtgtg	tgggtgctga	660
cggctcaart	cttccgggtga	tggtaatgtt	taaarcaarc	caamatcagt	tctccagtg	720
cgaagtattt	gaatgactga	ccaatgggta	acacttagga	tttttaaaaa	ttatTTTgat	780
tgtacatttt	gaattacatt	aatcttaaaa	taaactacaa	acataaacac	actgtgggtg	840
gagctgggca	tagtggcaca	tgcctttaat	tccagaactt	gggaggcaga	ggctggcata	900
tctctatgac	tttgaggcca	gcttggctca	tataatgagt	tccaggacag	agagatcctg	960
tctcacaac	agagaaaacc	ccataactat	acttttattg	tactgggttg	tctacagtgt	1020
aaagaattgg	caaagaatat	gaaagattac	actgggaaga	aactgaaagc	catccagagt	1080
aatgaagcaa	acccctcaca	aatgtgggaa	acatttcaca	tgggtgaggg	cttgcagcca	1140
gcctgtgcta	atTTtatgtt	tggtacgtga	gcacttagag	cagtttccag	ttctctggtg	1200
ctctaccaat	cttagcttgg	ttaatatcca	gggatgagtc	ttccatcacc	ggtaatctaa	1260
tttgccattc	tatttaaagg	ctcttaaagg	cacaggcagt	gcattgggta	aatgtggcaa	1320
ataatTTTctt	tgacaaatcg	accaattgtc	agattggcct	gctagtcatt	tgtttcaatg	1380
agaactgttt	tttctcaaag	gatgctcttg	tacaccggct	agaagcaggg	ctgtcatttt	1440
tataggtctc	tgtggtatTT	tgttgttgtt	gttctgttgt	tgcaaatcat	ttatcactga	1500
gggaaaatac	acacaaaggg	ccctttcttt	aaaagtatac	atgtatcatt	ttgtgacagc	1560
tcataagaag	ctgttttttt	ctgcctggac	acaggtcctg	acctgtgctg	tgtccttgct	1620
aagctttgtc	agacccttcc	acagctcccc	ccaacaacga	gttccccagt	acctgcctca	1680
cctcatcact	atggtgacag	cagcctctga	tgcgtgact	ctctggcaca	ttatggcagt	1740
gttaaaagct	tccatctctc	tctttgctga	ataatgaacc	tcaggttgtt	caagagaccg	1800
gaatgttctt	cacctgcctg	cacacatctc	ttcactttct	tttatanatc	aggtagggac	1860
tgggcgtgta	gatggaacaa	actgttttcc	gttccccagc	catctctgca	ggtgcactcc	1920
acataaatca	agtgttaaaa	gtgctttgat	taaacaggac	aggcgcttc	ttgagttcat	1980
ctgttcacat	actgtctggc	aagcgctgac	tgaggggtctc	ctctgtaccc	tgttctgaga	2040
actaacaaaa	gacgaatcaa	catacagaaa	actgttattt	agtgactgat	taaaactaacg	2100
aaggcatggg	ctggagaaat	aactcagcag	ttaagaacat	ttgctgatct	tgcagaggac	2160

ctgggttg	gttcttag	acacaggga	agttccagtc	ccggtgtgtc	cttttctcac	2220
ttctgtggac	acaagtttta	cacatagtg	acacacatac	actcacatat	ataaaacaga	2280
acatttaaaa	gtatgtttta	ataacggaat	catttatata	ggtttttcatt	tacataggta	2340
aataggcaaa	aatctgcatt	ttattgtttc	taagttttta	tttatttttc	tctgtgtgta	2400
catacgcatg	cctccttate	tgtatgtg	tgcactgtgt	gcatgcatga	acccacagag	2460
accagaagag	taccacagat	tctctggagc	tggagtgtat	gataggctgt	tgggagccac	2520
tccacatggg	gattcagagt	tgaacttcgt	tctctgcaag	aacagccagc	tcttaactga	2580
tggcttttac	ctccagccac	cttttctctc	tttttaaaat	ttccttctct	cctttttgag	2640
acaggggtct	aatacttagc	tcaccccaac	ttgacccac	tcttctcttg	ccttagtcac	2700
cacaatgttt	agtttataag	catgcgtcac	tatgcccggc	tttaataaaa	ctcaccata	2760
atcccagcac	tgaagtagac	aaaaggggag	atcgatgggg	ctgactggcc	acaagccgtg	2820
cttcaagttc	aatgaagacc	ctgtctcaag	ggaataaggc	acagaggata	gagccatacg	2880
cctgacctcc	tcctctggcc	tctaccagg	cacatgtgca	tacacacacc	acacacacac	2940
acacacacac	acacacacac	acagagagag	agagagagag	agagagagag	agagagagag	3000
agagagagaa	actttttctc	cttttttttt	aaaaatatta	tttatttcat	gtatatgagt	3060
acactgttgc	tgtcttcaga	cacccccaaa	gaaggcatca	gatcccattg	acaaatgggt	3120
gtgagccacc	atgtggttgc	tgggaattga	actcaggacc	tctggaaaag	cagtcagtgc	3180
tcttaacctt	ctcttcagcc	ccacaaagaa	actttttaat	agcaaataat	tgcttccaag	3240
taaatactac	taatatattt	ctaaccatac	tatacaagga	attattaaag	aacggataat	3300
aggagaataa	aaaattataa	gtcactttat	aatgctatct	aatccatcta	gaacaaaaac	3360
actgtaataa	tgcaaaagag	cgcagtgcct	agattaaata	aataaaaatgc	agaccaataa	3420
gtaaaacttta	tagcagcaca	tggaaatgac	gaaatttcta	acaaaaagct	caagatgggc	3480
agttttattt	aagtgaataa	caggagaaat	aaagcacaga	aagatactca	aaggcataga	3540
agttaacata	ggggggctgg	cgagatggct	ctacaggtaa	gagcaccgga	ctgctcttcc	3600
aaaggctctg	agttcaaatc	ccagcaacca	catggtggct	cacaaccatc	cgtaatgaga	3660
tttgactccc	tcttctgggt	tgtctgaaga	cagctacagt	gtacttaaca	tataataaat	3720
aaataaaaact	ttaaaaaaa	aattaaagaa	gttaacatag	aagcccactc	aggacccac	3780
tcagtcttag	agtagacat	tattatggac	attaaaaaga	gaaaattcag	cagtgtgtg	3840
catgctactg	atatatacac	aaatccttga	gtttcatacc	aaatgccttt	agaccattg	3900
tggctctgca	aacctgtaat	cctagcactt	gtgaaaagg	cagctcagga	actttgggaa	3960
ggatcatgaa	ctcttgcccc	tccagaagg	agaggcta	taacatttct	cagaccacag	4020
ggcgggaacc	gacctgcggg	tggggacaga	ctgttgcccc	tttccagact	agggaagtcc	4080
ttgtcacctc	attccctaaa	gaccaatcaa	tttaaagggt	gcactgttcc	gccaatcata	4140
ttgtgcctag	ttgtgatg	tctattctgc	ccttagaaac	cgtataaaaa	ctagcgaagg	4200
ggtaccagg	gtaaccccc	ctccttcagg	tctgggacaa	tcccactaca	ctggaacaat	4260
aatttctctt	ggctttttgc	attgatcaca	gtcctacttc	gtggtaagtt	aagactccct	4320
ggagtcttat	attggcaaat	gcaggcaaaa	gaatccgaaa	ctcaagggtc	tctaaaacta	4380
catagcaagc	atgctgctag	cctgggctcc	atgagaccct	gggggagggg	cagagggaga	4440
ccgttcagaa	gacagtcagg	atgttgagc	agcacaggca	gcctggccac	cagtgtgtgc	4500
accagacatg	ttaatgttgg	aataaagcct	caatcatgac	tctcccagtt	ttataattgg	4560
aaataagaaa	ggaaagacta	taggaacaac	tgtgttcaga	acactattta	taatagcaaa	4620
gatctcagag	taacccaaac	ttctagacat	tgatttggga	agatctcttg	gcagcttatt	4680
ttgaaaactt	tacaatgtta	aatatgtaaa	aacaaggaca	gttttgtttt	ttgttttggt	4740
ttgttttggt	ttagggatat	atattcatat	atgtatatga	atgaaaaccc	aaacttaaaa	4800
ttccccacta	tgttttaaag	gctttctgac	aataacagaa	agagaaatag	agaatccata	4860
aaaactagtt	ctgaaactat	caataggctt	gacactcttt	agctgccagg	agagctgaat	4920
ctgaacacag	ggaacccac	ccagcacccc	aaatttggtat	tattgtttta	ttttatcttt	4980
cccctacccc	caagacagg	tttctctg	tggctctggc	tgtcctggaa	ctcggagatc	5040
ctctgctctt	ctgctctctt	gctctctctt	ctctctgctt	ctctctgctt	ctctctctct	5100
ctctctctgc	ctctctctct	ctctctgccc	ctctctgctt	ctctctgctt	ctctctgccc	5160
ctctctgccc	ctctctgccc	ctctctcttc	ccctctctgc	ctctctctct	gcccctctct	5220
gcctctctgc	ctctgctctc	tgagtgtctg	gatttaaagg	catcagccat	cacttccagc	5280
ttcctttatc	attttaaaaa	gaatttctta	tgtgactact	gtattttaa	caccacacgg	5340
ccaatactcc	cccccaactc	ctcccaaatc	ccctctaccc	actcaaattc	ttatcttgta	5400
ttcttttatca	ttattatata	tatgtgtata	tatgtgtgtg	tgtatatata	tatatactat	5460
atactgctaa	tgagtaacat	ttagtgttat	tcattgttgc	atgttttcaa	tgtgctttcc	5520
aggaggctgg	ggggatggct	cagtgggcaa	aattctagct	gcacaagcct	aaggaccagg	5580

gttcagatcc	ccaatataaa	ggctggctgg	acatgggtggc	ttgcctatga	tactagcatg	5640
cttgctggaa	gcaaagacag	ggaatccctg	gagacttaga	atctcagaag	tgatctgggc	5700
tggacagact	agctgaactg	gccagctctg	ggttcatcaa	gaaaccctac	ctccataaca	5760
taaagtgtga	tggagaaaagg	cacctaatgt	caacctcaaa	ccccctacctg	catgtgcaca	5820
cacatacatc	cacaccacac	acacacacac	acacacacac	acacaccaca	cacacacaca	5880
cacaaataaa	taagtaaata	aataaaaatat	ttagctctcc	agaccaaatc	ttggtgaaac	5940
ccatgcattt	gcatttgtgt	gtgtccctaca	aacactgaag	gttaagaagc	atgctcctta	6000
gtaattttat	agcagtttgc	gtttccagat	tgaaaacaga	ttctataggc	tacacagtgc	6060
taaattggatt	atgctcagat	acagattgaa	aaggatacag	attgaaaagg	gtcgggggtct	6120
gggccaggat	gacggggcaa	ctatctttgc	ccgggcttgt	ccttcaggga	agggttacag	6180
gattcaccac	tgggggtgtgg	cctatctgct	gttaggacct	gaattgcctg	gagtgtttct	6240
agttcccact	agttgttgaa	ctttaccttg	aacctctgct	cccagggaag	tcacaggagc	6300
tctgccatcc	ctggagctctc	tgcagagggt	gtttgaccaa	cagctttccc	caggccttcg	6360
cccacgacct	caggtaaggg	gtttggattt	ggaaagatgc	aattgctata	ggaggggactc	6420
tgaaggcaga	cagacgcacc	gcctcctcac	gttggctagt	ctaataataa	catcgcggtg	6480
gatggtgagg	atagactcca	tgcccttttg	tgaaggcatt	tcctggcatc	agctcctgac	6540
ttcagagttt	cacccatcag	acaaattgcc	tggtgttgga	ggaggagggtg	agcaggggcca	6600
ttcccatcat	ttctcctcag	aaatggaaaag	gcaaggaaaa	catgagggttc	ttcagacact	6660
taatccctgg	gactgcaaaa	tggtgggtgcc	cctcctccac	agctgctcac	ggcggggcag	6720
gagatgaggg	ccgaatgaag	catagatcta	gctatttttt	ttttagtgcc	ttcagtaaat	6780
ttaaaatcaa	ataagggaag	ggacctagat	ctttatgtta	tggcattggt	aaaagtgaga	6840
acttgtagcc	aggggtgtggt	ggcgcacacc	tttaatccca	gcacttggga	ggcagaggga	6900
ggcggatttc	tgagtttgag	gccagcctgg	tctacagagt	gagttccagg	acagccaggg	6960
ctacacaggt	ttctctatac	agagaaacct	gtctcgaaaa	accaagaaaa	aaaagaaaga	7020
aaaagaaaga	aagaaagaaa	gaaagaaaga	aagaaagaaa	gaagaaagaa	aggaagggaag	7080
gaaggaagga	aggaagaaaag	aggacaacat	ggtctagggg	tcagagagca	gatctccaaa	7140
aacaccaaca	atgccttgct	gtaaatgtat	gtcgttgatt	tggggatggt	ggcctccagc	7200
tcaccatttc	ctgccttagc	ttccaaagtg	ctaggattat	aggcttgagc	caacacatct	7260
ggcttacgct	tattgtgtgt	ggaaggggag	tgctgagtgt	gctcctgtgt	ttggtactta	7320
tatatgaata	tatgtatata	cgcattgtacg	catacttgca	tgtgaaggcc	agaggccaat	7380
gtcagctgct	ctcatcttat	cctttttatt	acattgtatt	tatttgtttg	tttgtttgtt	7440
tgtttcatcg	tacgcatgca	gccactcatg	agcatgtaac	agcacaggta	tgaaggtaga	7500
cttgcaggag	tcagttctct	ccttctgtca	cttgagttcc	aggaccacac	tccagccccc	7560
aggcctgggc	tgtaagagag	ccatcttact	ggctcctctac	tttgtcttct	gagatagcat	7620
ctagactcac	ggaacctgga	gctcatctag	atttacattg	gctggccagc	tgatgcattt	7680
taagggtcaaa	tcttcattcc	atccctaccc	cacttccact	cccagtgtctg	gagttcggga	7740
cacctgccac	caagcccagt	ttttcctgga	tgcagaagct	ccaaactcag	gttcccattg	7800
tcgcatggca	ggcacatttt	cagttaagcc	ttccccccag	ctcctttacc	ctggtctctg	7860
aatggggggg	aggctataaa	tcaggctgct	ctcagacatt	aggtaggaaa	tagaccatat	7920
acatgaggaa	agatattcac	ctgccccatg	ggtaccagga	agtgatgtcc	aactcctctt	7980
ttgcttatca	ggagaaatgc	tgactactac	ctctggtaat	tttgatgttg	ggaggaacag	8040
ggacattcat	aggaccccat	tcctcgctgg	tgagagtgga	gacaggtttt	ctgaagggca	8100
ggagatctgt	gtagaaaaga	tggatgctgt	tttctgaagg	gaaatggagg	tagagtcgac	8160
ctgggagaga	ggggaggtgg	gggatggttg	ggaggaatga	aaggaagaga	gatggcagtt	8220
gggatgtatt	gtataagaga	agaatcagaa	agaaaaaaaag	aaaagctacc	tgcacccttc	8280
aagtgttcct	ctgtgtggga	ggctgtctca	gggactacat	gggcaccgag	aggcatcagt	8340
gagggtaggt	acttgatggt	gtgtccctga	aaacaaggac	aggaaatctg	ctgcatggcc	8400
taagatggca	aaatgtggca	caatcaagta	aggcccagga	ttctgtctgt	ggtgcagacc	8460
tgctgtagaa	tgagctccca	gcattcccac	ttgctgtgtg	gagacagcat	gttgcagagc	8520
catgtgagga	tgaggggtcca	ggccaggagg	atgtcaaccc	accaccatgt	agccagtggg	8580
ctgggggagc	ttggggccac	caaggagctt	gagcagactg	acagtggggt	atgtacacaa	8640
gtgggcgtgt	cacacaaccg	tgcaacacag	agaaaatccc	tgtgatgaca	acttctaacc	8700
cacctgagg	caaaaggagt	agacagggga	ttagagccta	gcatattgga	gtcagagtggc	8760
catgcagctc	ttggaagcgt	gaggaaggaa	atttcctgga	aggatagggt	gtcttcctag	8820
cagcctcgtc	aatagatgtc	aatgtatgag	gtagtacctg	ctacaatcct	gcttcttcag	8880
aagactgagg	cagggggatt	acttgaaccc	agaagttcta	ggccagtatg	gacaacatat	8940
caagagtctg	atttataaaaa	aaaaaaaaaag	taaagaggga	aaccaaatag	gtgacgtgcc	9000

acactagtg	cttcctgctc	caaggggtcct	gggcacatga	gcttgcttag	tgccagaaaa	9060
gtcagaggag	gagagggcag	acagagaccc	tcgtctccac	ctcctttgac	tgactaatgg	9120
ggctggatat	aatctgtttt	acaaaaggac	agcttttcag	agctgtttct	atctaagggt	9180
gctctgaata	gccatctcga	aatatgccag	agaagaatat	ttagaggcgg	cctattttgg	9240
tctcccacaa	agattttcaca	gggaaaatgt	atltgtgttc	tatttataca	actaaaaata	9300
tgcatcagcc	cggggaaact	ggctctttgc	tgcccttgaa	gtgaaggatg	gggttaatttc	9360
taagaaagta	aaagcaaagt	tagtgcaggg	accacggatg	ctgccagaca	ccagcgttta	9420
agtggcttga	atggaagagc	acaccccaag	tatttgaagt	aggtgaggag	agagaccagg	9480
tctccagagt	tgggcctgca	gtggccaggg	taagtccaag	gggcagtatg	acgcagaaca	9540
gagtggcaac	ctctaccagt	agtagaattc	aggtctcatt	cctaacctcc	cataaagcag	9600
agaatattgc	actctctttc	tctctctctc	tctctctctc	tctctctctc	tctctctctc	9660
tctctctctc	tctaactcac	agagatcctc	ctgcctctgc	ttcctcattg	ctggaaataa	9720
aagcatgtgc	caccacatgc	agctctcctt	gtttggagag	agaaaggcag	acagacagac	9780
agacagacag	acagacagag	tataatgtgt	gcagatgtcc	acagaactcc	gaagagggtg	9840
tgggaccccc	agaaaccgga	gttctaggca	gttgtaagct	gtccagtggg	tggtgcgaac	9900
tgaactcaag	tcctctggaa	aactggaaag	tactcttaac	cactaagcta	tctgttagtc	9960
ccccagaagt	gtcttatctt	gataggcctt	cagatctcac	agtccagggg	gctgactgct	10020
acaaggggta	gaggaaagaa	aactggcccc	aggcctgagt	tcagagtgc	atctccagag	10080
ttcttctctc	ccttgccgtg	tagtaatttc	ctacctaca	cgaggagaaa	aggaacagat	10140
atgtccagta	tgcctggcat	cttgaaaggg	cactgactct	tgccgctgta	gagccccctt	10200
ccttggggag	tgacagaaag	tgctgctaga	gaggttcaaa	agaaacacaa	cagtcaaaat	10260
agttgtgggc	caagggaggg	catgtgccct	gtatcggggc	tgcaaagccc	tttcaacagt	10320
gtagccaagg	ccatgtttga	cagtacaagc	ctgtaagccc	atgcataagc	aagggtctggg	10380
ataaagggct	actgttcaag	ttagttatat	acacatcaag	tttgttcatc	ttacatcctt	10440
aggtaagggg	gggtagcttg	ttagctccac	ctctccagca	ggaaagcatg	tccacggtaa	10500
ggtagatact	gtagagttta	gctttgtttt	gacctttctt	tcttcgttgc	ttgggattgt	10560
acttgggaac	ttcactcatg	cagcccattg	ttcagccttg	cataaatcta	taaatatatg	10620
gttggagtca	ggtccagcat	atgtgggtac	cagtcccagt	ctggtatagc	aatttattag	10680
ctatttgtct	ttagacaagt	aactataggg	ttctgagctg	taatggccac	caaacaggtc	10740
ctttaagtat	ctttattggc	caaacaccag	ggttaaaaca	ctgaacacag	tatggtggtt	10800
tcaactgtca	tggagtccac	attctagcag	gggaatttta	cacacaactc	acaaatgata	10860
cagaccacag	cagggtgatt	tgacagagac	aacgaagggc	ttgcctgagc	tgcatgagtc	10920
cgggagcagc	tcttgatggg	atctgagatc	tagatggcag	agcgcccttc	ctagatgaaa	10980
tccaagcctc	tggttactcc	tcagcaagag	tagctggagg	aagaccagaa	gtgaggagga	11040
aaaggctcag	agtggagcat	ctaagcctgc	agcacctcca	gagacaggct	ttggagcttg	11100
cctgtgggtc	agcctactgt	gggaagagac	cagtgagggt	tttaagctgt	ggggatgggt	11160
atattttgga	aggcgaacaa	gaacaccagc	agctcaggca	atgtaggagg	gcgggaaggt	11220
gatggatgat	cgaggacggc	cccagagatt	ttaaggactg	tgtaggtggg	gtgagaagca	11280
ctgtgggtga	ggtggagtta	gagggaaagaa	gtgaagatct	atlttttttg	ccatgaggaa	11340
tttgggggtg	acacacacac	atacatacac	accccatcat	gtccttgtct	acagacgggg	11400
tgataatggg	actggaaggt	agaaggtgga	aagaggacca	gcaaggaagg	tatccagtgc	11460
ccaccccaca	gctcaccctc	agacagacct	tgttctcatt	ttcattaccc	aggtgcccgg	11520
agaggccagt	cccatcacc					11539

<210> 6

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 6

atctttgccc ggggcttgct ct